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(A)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	ATTORNEY DOCKET NO.	
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		* /	7	EXAMINER		
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				<u> 24. a.</u>		
				DATE MAILED:	4.3 6E .X	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

SEE ATTACHMENT.



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ATTY DOCKET NO F RST NAMED APPLICANT APPLICATION NUMBER FLING DATE EXAMINER PAPER NUMBER ART JNIT

DATE MAILED:

This is a communication from the examiner in charge of your application COMMISSIONER OF PATENTS AND TRADEMARKS

2-2-00	
Responsive to communication(s) filed on	
This action is FINAL .	
Since this application is in condition for allowance except for formal matters, prosec accordance with the practice under <i>Ex parte Quayle</i> , 1935 D.C. 11, 453 O.G. 213	ution as to the merits is closed in
A shortened statutory period for response to this action is set to expire whichever is longer, from the mailing date of this communication. Failure to respond with the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtain 1.136(a)	month(s), or thirty days, nin the period for response will cause otained under the provisions of 37 CFR
Disposition of Claims	
Disposition of Claims	is/are pending in the application.
Of the above, claim(s) $8-13$ and $31-36$	is/are withdrawn from consideration.
Claim(s)	is/are allowed
S Claim(s) /-1 and 19- 50	is/are objected to:
	re subject to restriction or election requirement
The drawing(s) filed onis/are objective. The proposed drawing correction, filed on The specification is objected to by the Examiner. The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119	is approved disapproved
Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d)	
All Some* None of the CERTIFIED copies of the priority documents	s have been
received received in Application No. (Series Code/Serial Number)	
received in Application No. (control from the International Bureau (PCT F	
	Rule 17 2(a))
*Certified copies not received:	Rule 17 2(a))
*Certified copies not received: Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e)	Rule 17 2(a))
	Rule 17 2(a))
Acknowledgment is made of a claim for domestic priority under 35 U S C § 119(e) Attachment(s) Notice of Reference Cited, PTO-892	Rule 17 2(a))
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Acknowledgment is made of a claim for domestic priority under 35 U S C § 119(e) Attachment(s) Notice of Reference Cited. PTO-892 Information Disclosure Statement(s). PTO-1449. Paper No(s) Interview Summary. PTO-413	Rule 17 2(a))
Acknowledgment is made of a claim for domestic priority under 35 U S C § 119(e) Attachment(s) Notice of Reference Cited, PTO-892 Information Disclosure Statement(s)_PTO-1449, Paper No(s)	Rule 17 2(a))

Art Unit: 2834

Claims 4-6 and 17-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims are vague and indefinite in that it is unclear whether or not a fixing layer is included in the completed finished device claimed. It is unclear whether applicant is attempting to claim an intermediate product, separate from the finished structure of e.g. claims 1 and 14. Thus one cannot determine the metes and bounds of these claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 4-7, 14, 15 and 17-20 are rejected under 35 U.S.C. 102(a) as being cleary anticipated by Ogiso (fig. 16), Nakata (fig. 9), Japan (077) (fig. 2) or Japan (821)(figs. 4, 5)...

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogiso or Japan (821) in view of Japan (499). Ogiso (fig. 16) and Japan (821) (figs. 4 & 5) teach the

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claimed resonator structure except for the exact tapered cross-section for the connection portion.

Japan (409) teaches providing a tapered shape to aid in assembly and allow for different piezoelectric sizes. Thus, for at least these reasons it would have been obvious to one of ordinary skill in the art to provide Ogiso or Japan (821) with a tapered connection section.

Further cited of interest are Scott, Pennybacker, Ishigami, Kreutzev and German.

Applicants general traversal of the lack of unity "holding is noted. It is noted hower that the method steps do not recite special technical relationship in that the U-shape opening is explicitly included in the resonator structure. In the method, the only a <u>steps</u> recited are attaching, providing a gap and forming a connecting layer.

Budd/dc February 25, 2000 CHI 212